

ABSTRACT OF THE DISCLOSURE

A system for recording and displaying a multimedia presentation, includes a digital camera having a solid state image sensor for selectively generating a sampled analog video image signal or a higher resolution sampled analog still image signal, and a microphone for generating an analog audio signal. An analog to digital converter converts the sampled analog video image signals and audio signal to a digital image signal and digital audio signal and an audio visual encoder in the camera compresses the digital video signal and associated digital audio signal to form a compressed video bit stream. The camera is operated to periodically capture a higher resolution still image to form a still image file while capturing a video sequence. A pointer linking a captured high resolution still image with a corresponding frame in the compressed video bit stream is appended to the still image file. An object oriented image processing system, includes an image processing computer, an object oriented operating system, an image memory for storing the compressed video bit stream and the still image files as objects, a graphic user interface including a display and operator input device, a decoder for decoding the compressed video bit stream, and an application program for generating low resolution index images from the higher resolution still images with pointers linking the index images to the high resolution still images and storing the index images with their associated pointers as objects in the image memory, for displaying a plurality of the low resolution index images on the graphic user interface and responsive to operator selection of an index image from the displayed index images, employing the pointers stored with the selected index image and the associated high resolution still image, to retrieve a corresponding portion of the compressed motion image, decompressing the retrieved portion of the compressed motion image, and displaying the decompressed portion of the motion image.